

# Meet Your Presenter(s)



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PE, MBA
Director, AE Advisory



Jennifer Knox
PE, MBA
AE Advisory Consultant



- 1. Establish a baseline by benchmarking your performance to similar firms.
- 2. Elevate your strategy for performance improvement, using anticipatory thinking.
- 3. Leverage key performance indicators as a method of keeping score and tracking your efforts.

# Polling Question

How many KPI's (key performance indicators) does your firm rely on?

- o-5
- 5-10
- 10-15
- More than 15
- We don't use KPI's



# The "WHY"

a tool in planning for the future

## Planning for the Future

#### **GAP ANALYSIS**

Where are we today?

What needs to change?

## EDUCATION & COMMUNICATION

What are the "drivers" or operational levers?

Is everyone aligned with these goals?

Are the goals SMART?

Benchmarking

## Planning for the Future

#### ANTICIPATE

Overall, what does the future look like?

What's happening in the marketplace?

What's happening within my firm?

#### CREATE THE FUTURE

Create a strategic action plan.

Create steppingstones and interim milestones.

Create a monitoring accountability system.

Create your future!

Performance Strategy

## Planning for the Future



Anticipatory Thinking

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Benchmarking

Performance Strategy

# Polling Question

Which of the following is NOT necessary for good benchmarking practices?

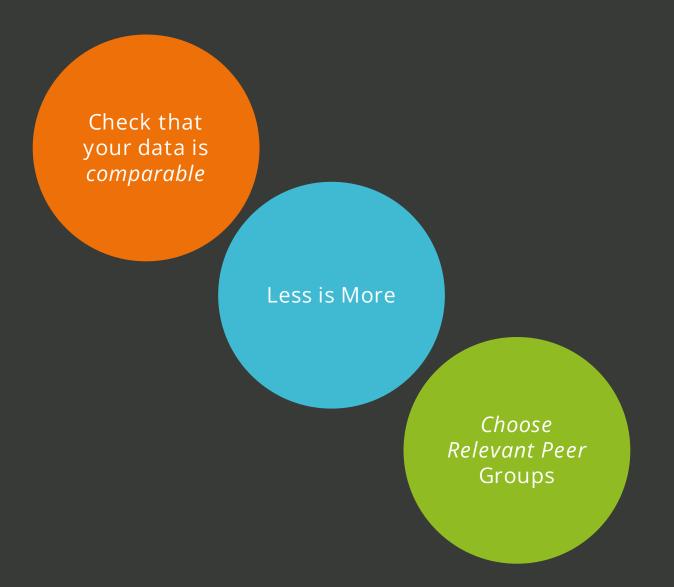
- Good data collection (your firm's data)
- Any source will do for benchmarking data
- Only use as many KPI's as necessary
- Using benchmarking data to understand where your firm is today
- I'm not sure



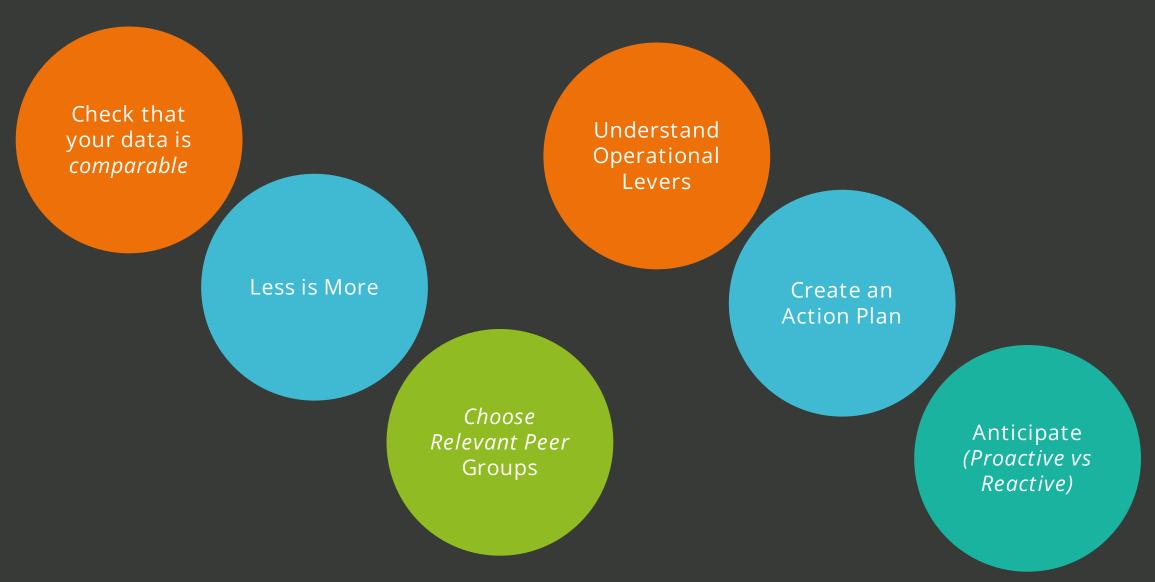
# Best Practices

one size does <u>not</u> fit all

## 6 Best Practices of Benchmarking



## 6 Best Practices of Benchmarking



#### **PSMJ**



The A/E Industry's Most Trusted and Comprehensive:

- KPIs for Superior Business Performance
- · Decision Data for Resource Allocation
- Proof of Best Practices and Industry Standards

**PSMJ** Resources. Inc. •

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BENCHMARK SURVEY REPORT

The A/E Industry's Most Trusted and Compre

- KPIs for Superior Business Performance
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2022 A/E STAFF COMPENSATION

BENCHMARK SURVEY REPORT

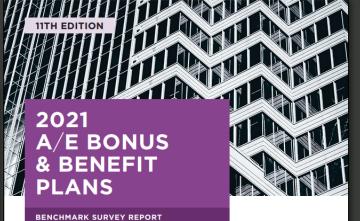
9TH EDITION

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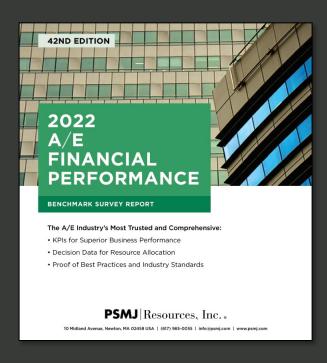
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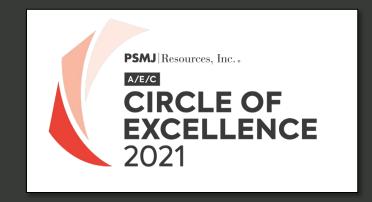
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#### PSMJ Circle of Excellence



2021 FYE Data 2022 Report Date



Top 20%
High Performing Firms

Encompasses critical aspects of business operations:

- ✓ cash flow control
- ✓ overhead control
- ✓ business development
- ✓ revenue growth
- ✓ project performance
- ✓ staff utilization/retention
- ✓ overall profitability

### Deltek Clarity



### Deltek Clarity – High Performers



#### **High Performers**

- √ > 3.o net labor multiplier
- ✓ > 15% profit as a percentage of net revenue

14% of

Study Participants

### Zweig



#### Choose Your Peers: PSMJ

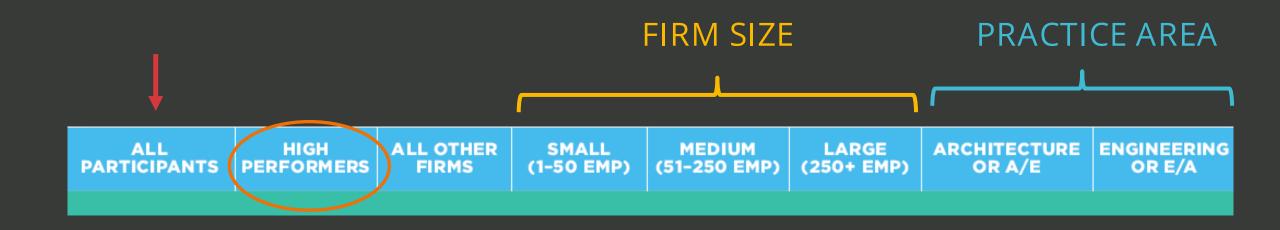


Table 31
Operating Overhead Rate (Before Incentive/Bonus)

	Overhead Rate Before Incentive/Bonus Payments & Taxes			
	25 <sup>th</sup> Percentile	Median	Mean	75 <sup>th</sup> Percentile
Overal1	135.7%	163.6%	165.1%	188.8%
Staff Size 1 to 20	116.0	160.9	166.6	205.8
Staff Size 21 to 50	132.3	163.8	167.0	199.0
Staff Size 51 to 100	136.0	157.7	163.4	188.5
Staff Size 101 to 200	135.3	161.5	165.1	187.3
Staff Size 201 to 350	148.3	167.6	161.2	183.7
Staff Size 351 to 750	150.4	165.5	166.5	177.2
Staff Size over 750	141.8	160.3	167.9	194.6
Architectural	154.0	177.2	187.8	203.6
Architectural/Interiors	144.6	163.8	177.2	202.4
Engineering (Prime)	133.5	160.7	156.6	176.8
Engineering (Subconsultant)	118.6	148.0	146.5	174.6
Engineering (Survey)	133.0	151.8	160.1	183.8
A/E	141.9	172.1	167.6	194.0
Environmental	165.5	207.0	194.0	223.3
All U.S.	119.7	159.8	163.2	200.7
Northeast	152.8	174.4	186.8	213.3
South	139.8	161.4	166.1	187.5
Midwest	141.8	171.2	171.7	197.8
Southwest	152.8	175.5	168.7	187.1
Mountain	136.6	154.8	156.6	175.4
West	138.6	158.0	159.4	179.5
Canada	108.3	119.8	122.3	129.3
Private	131.0	155.8	164.7	194.9
Government	135.6	164.1	164.8	186.9
Mixed	146.1	168.1	166.2	184.1
Transportation	126.6	154.7	158.3	186.1
Water/Wastewater	150.0	162.6	162.1	177.0
Industrial	118.5	140.3	150.3	152.3
Energy-Utilities	190.9	197.8	207.7	209.9
Commercial Users/Developers	137.5	159.8	168.4	202.1
Education	152.6	180.6	186.2	210.5
Housing	128.1	149.0	152.0	179.1
Healthcare	166.7	183.8	195.5	214.7
No Specialty	135.4	163.4	162.2	184.1

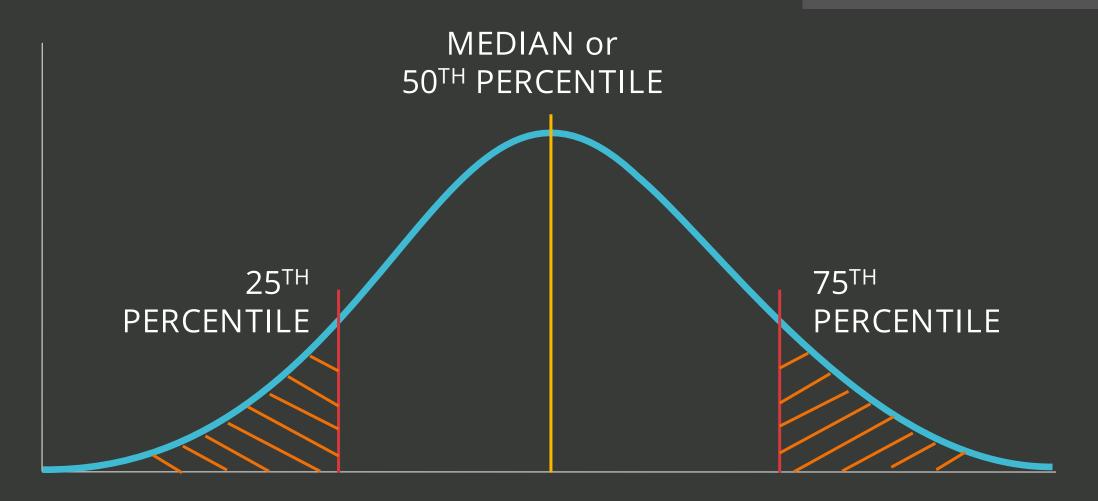
Resource: PSMJ Resources 2022 A/E Financial Performance Benchmark Survey Report

#### Choose Your Peers: Deltek



#### Normal Bell Curve

MEAN = AVERAGE



# Benchmarking and Operational Levers

working on the business



A snapshot of the current state

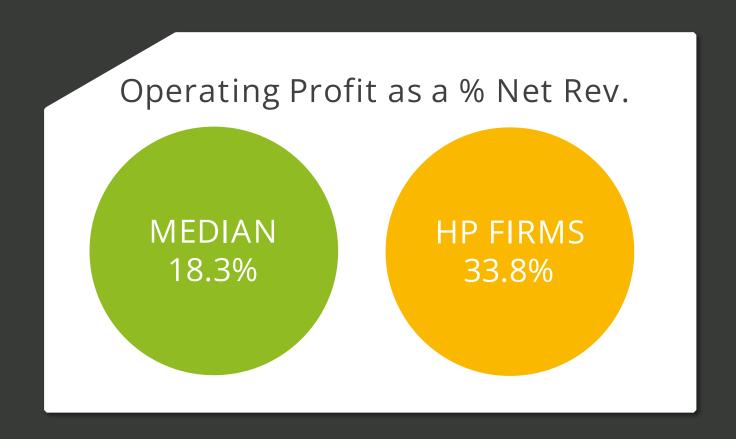


- Are we profitable?
- Is there enough hard backlog being worked on and invoiced for the number of staff?



Compensation & Benefits

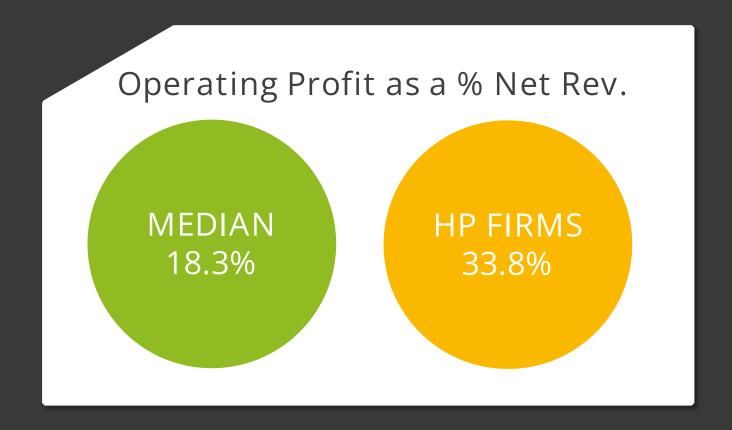
Business Development KPIs



Financial KPIs

Operating Profit \$
Net Revenue \$

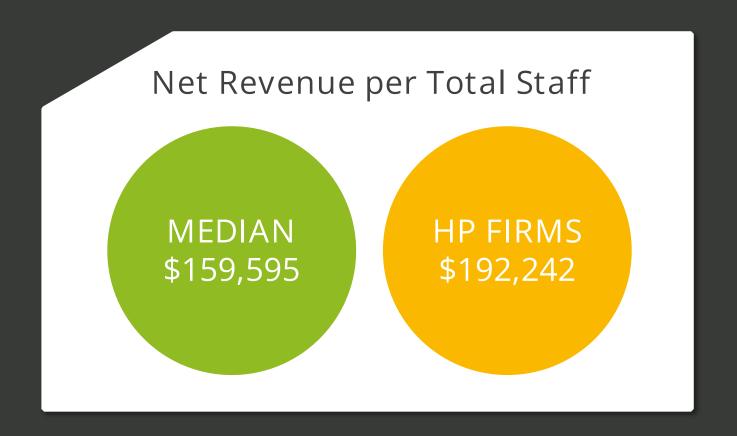
#### Potential "Levers"



Financial KPIs

Operating Profit \$
Net Revenue \$

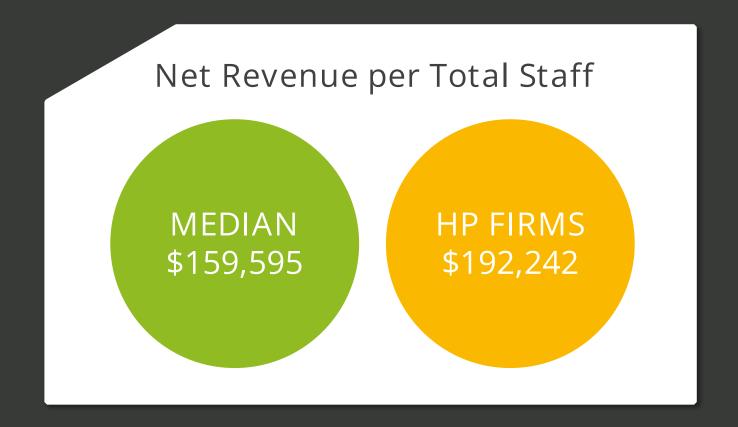
- Overhead being managed?
- Cost of labor appropriate?
- Change orders being issued?



Financial KPIs

Net Revenue \$
Total Staff #

#### Potential "Levers"



Financial KPIs

Net Revenue \$
Total Staff #

- Fees adequate to cover project labor and expenses?
- Appropriate staff levels?

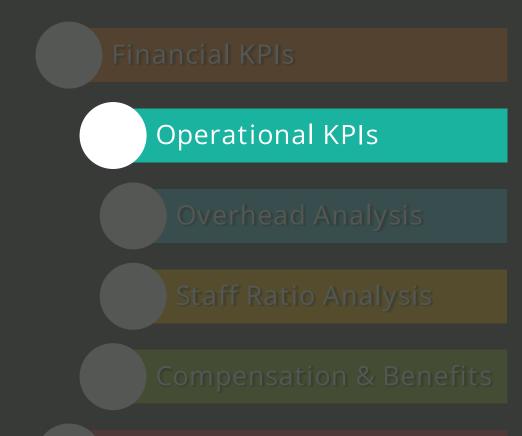
# Where to look for Operational "LEVERS" – it's in the MATH!

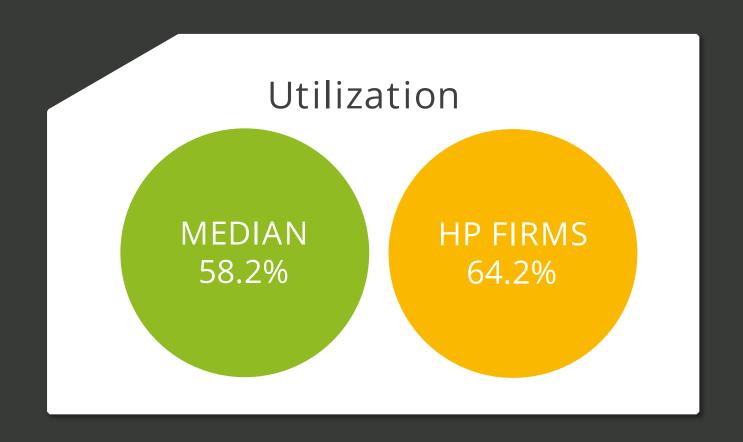
Net Revenue \$ / Total Staff #

Direct Labor \$ / Total Labor \$

Net Revenue \$ / Direct Labor \$

- Is the staff chargeable on project work?
- Is the time spent on project work able to be invoiced?

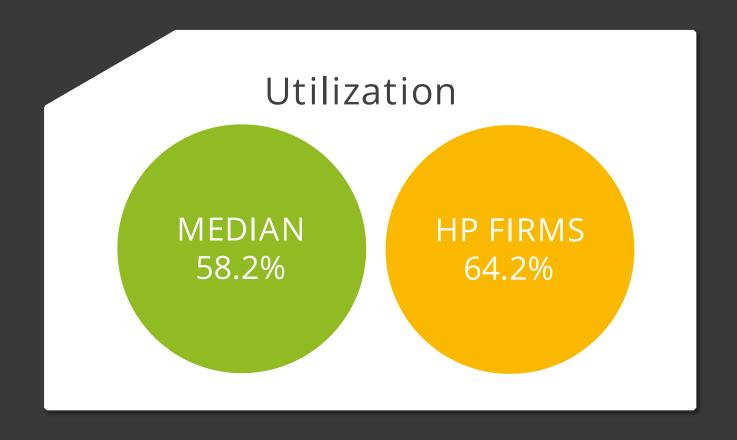




Operational KPIs

Direct Labor \$
Total Labor \$

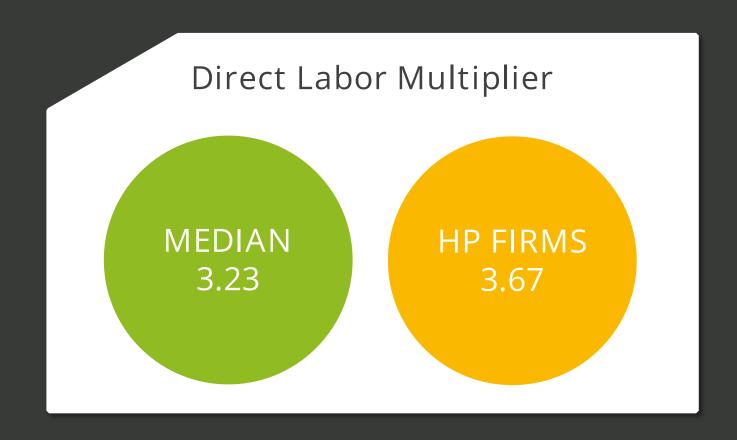
#### Potential "Levers"



Operational KPIs

Direct Labor \$
Total Labor \$

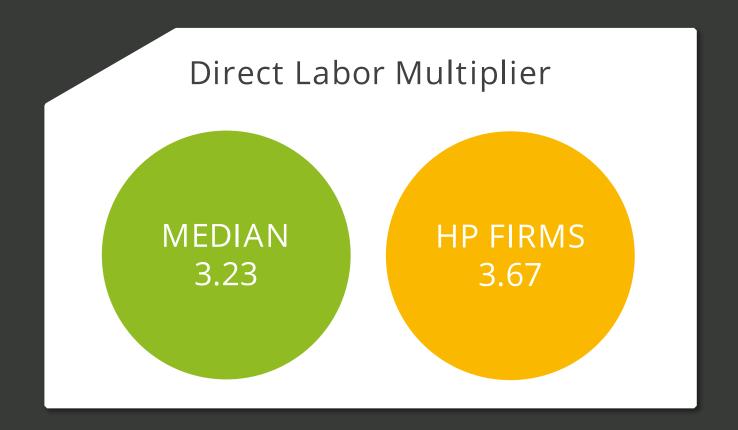
- Are time sheets accurate?
- Is there adequate work available (backlog)?



**Operational KPIs** 

Net Revenue \$
Direct Labor \$

#### Potential "Levers"

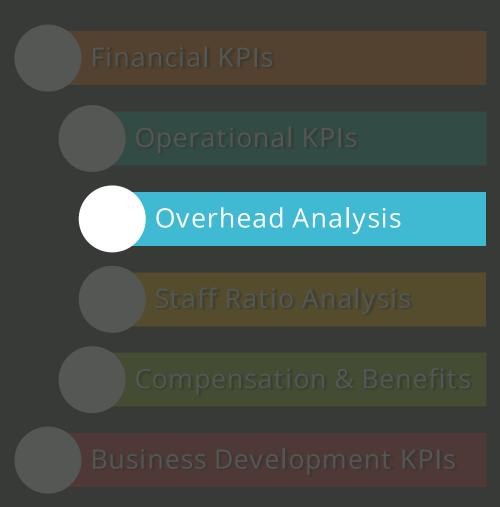


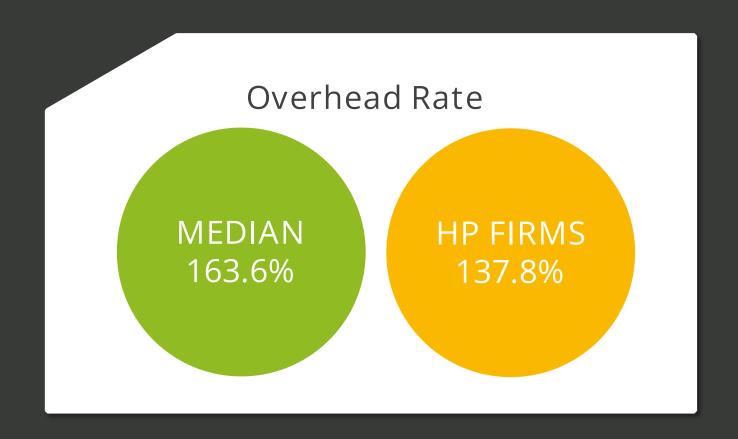
Operational KPIs

Net Revenue \$
Direct Labor \$

- Are project being managed efficiently?
- Are billing rates supporting project labor costs?

- Is overhead being managed?
- Are we retaining staff?

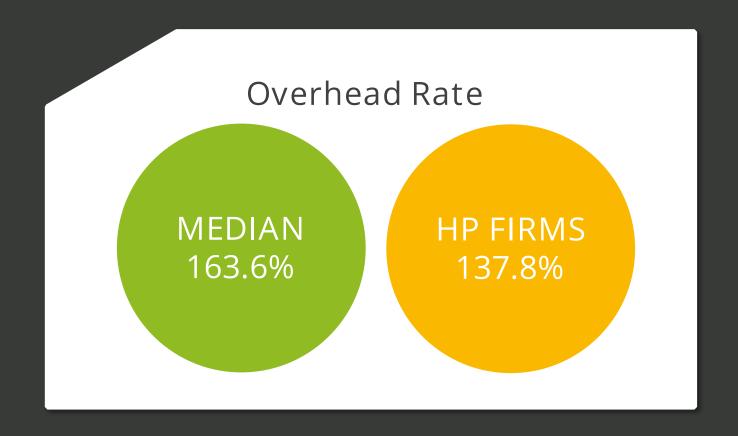




Overhead Analysis

Overhead Expenses \$
Direct Labor \$

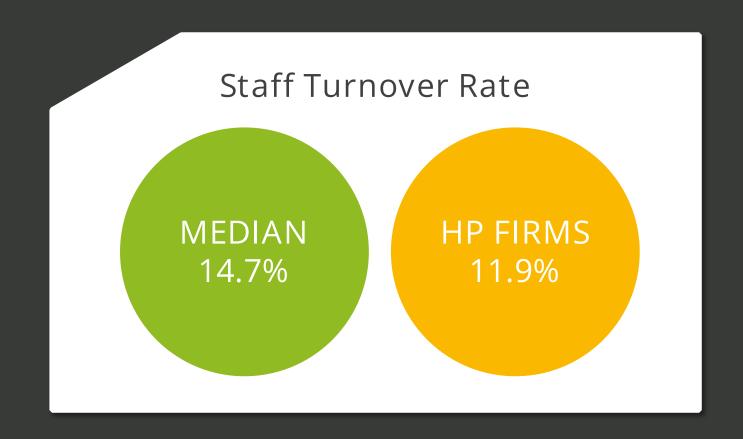
#### Potential "Levers"



Overhead Analysis

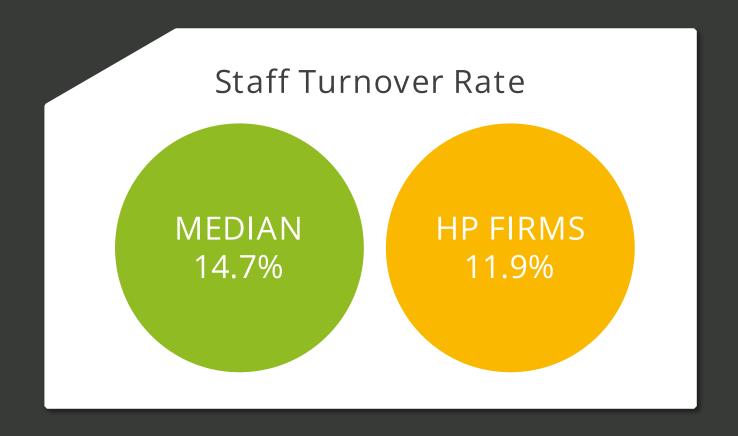
Overhead Expenses \$
Direct Labor \$

- Are indirect labor costs appropriate?
- Are time sheets accurate?



Overhead Analysis

<u>Departing Staff #</u>
Beginning Total Staff #



Overhead Analysis

<u>Departing Staff #</u>
Beginning Total Staff #

- Is your employer brand attracting and retaining talent?
- Is your compensation adequate?

- Do we have enough project managers?
- Do we have sufficient support staff?

Financial KPIs

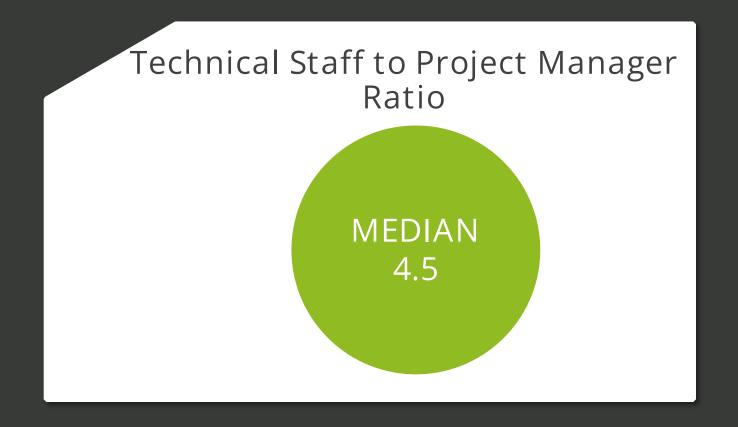
Operational KPIs

Overhead Analysis

Staff Ratio Analysis

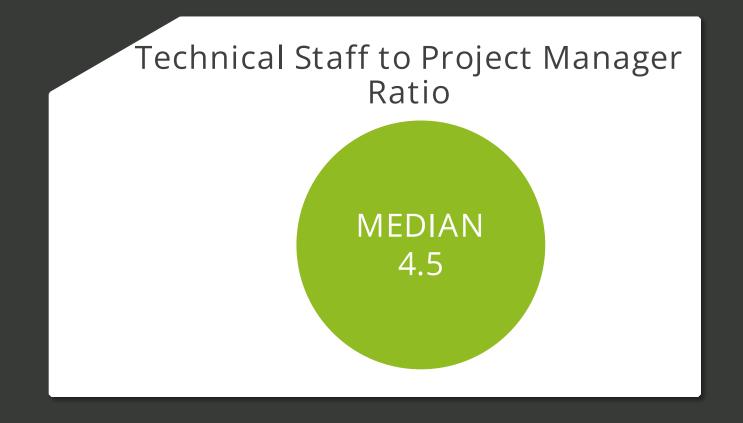
Compensation & Benefits

Business Development KPIs



Staff Ratio Analysis

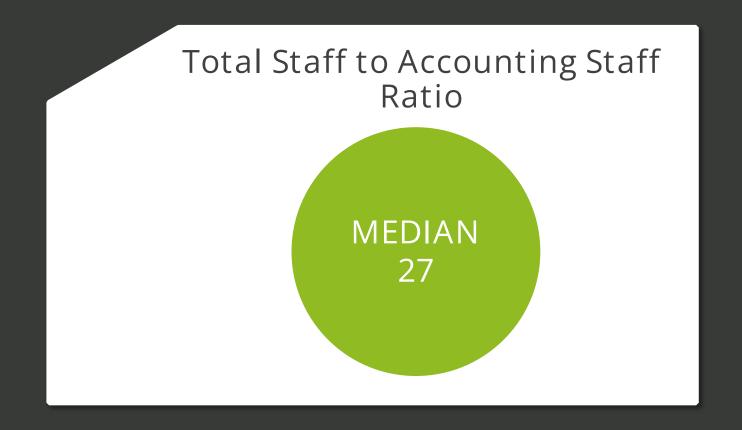
<u>Technical Staff #</u> Project Managers #



Staff Ratio Analysis

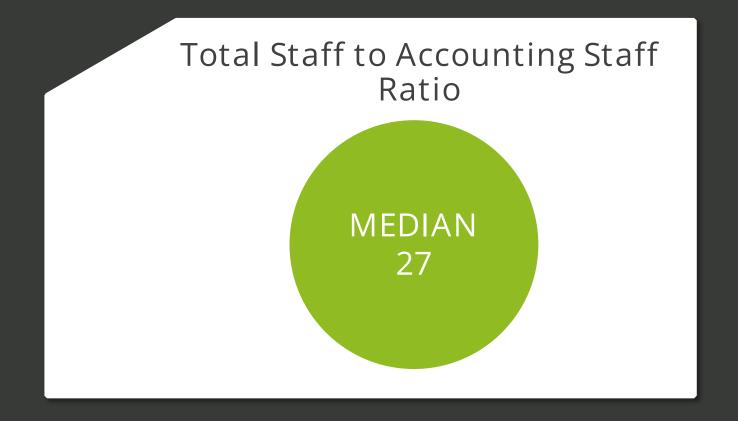
<u>Technical Staff #</u> Project Managers #

- Clear definition of PM?
- Development path?



Staff Ratio Analysis

Total Staff #
Accounting Staff #



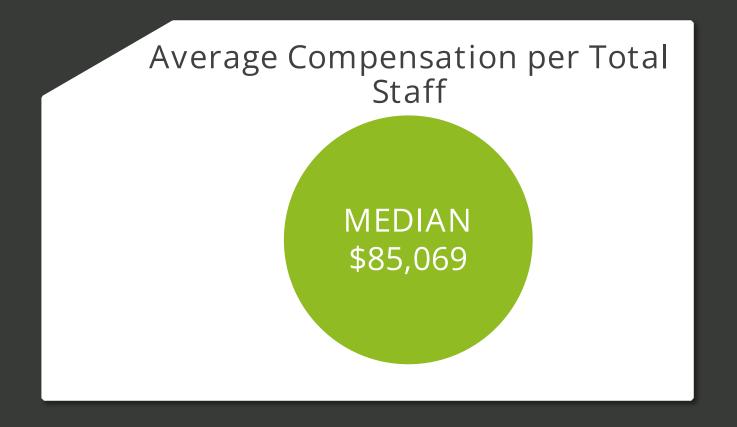
Staff Ratio Analysis

<u>Total Staff #</u> Accounting Staff #

- Processes efficient?
- Appropriate staff skillsets?

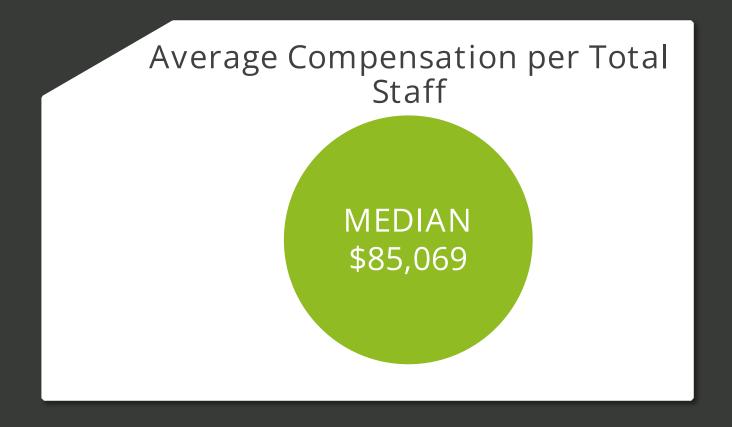
- Are employees paid comparable or above average to market rates?
- Is the firm offering a competitive bonus program?

Compensation & Benefits



Compensation & Benefits

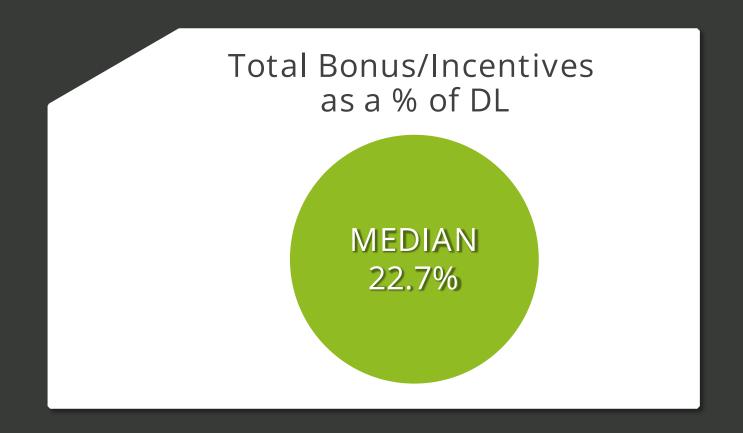
Total Salary \$
Total Staff #





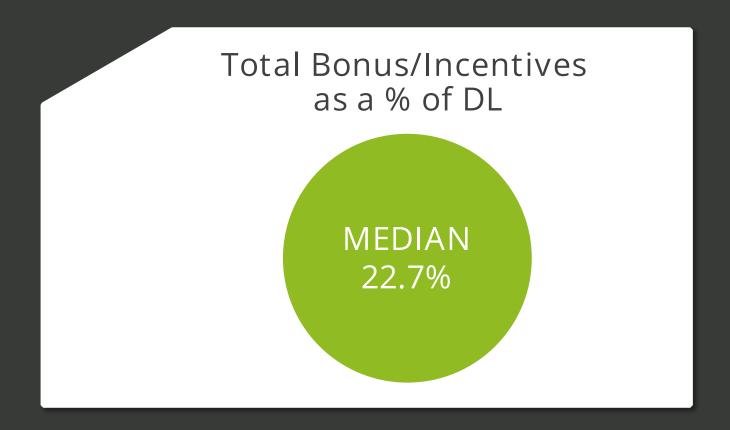
Total Salary \$
Total Staff #

- Is the ratio appropriate?
- Has a compensation study been done recently?



Compensation & Benefits

Bonus & Profit Sharing \$
Direct Labor \$

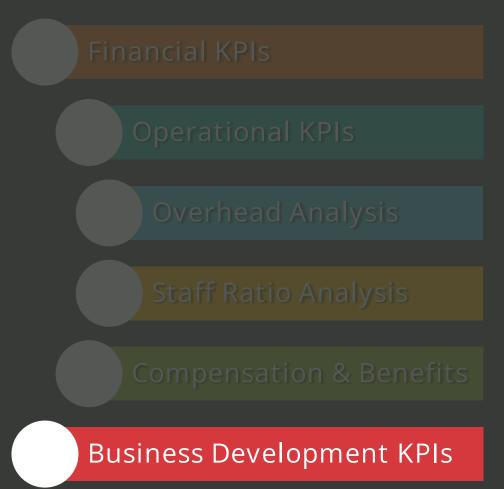


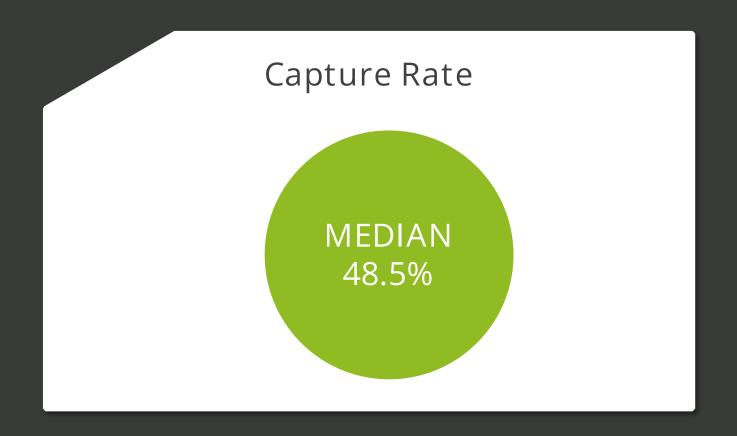
Compensation & Benefits

Bonus & Profit Sharing \$
Direct Labor \$

- Has the bonus plan been reviewed recently?
- Has a compensation study been done recently?

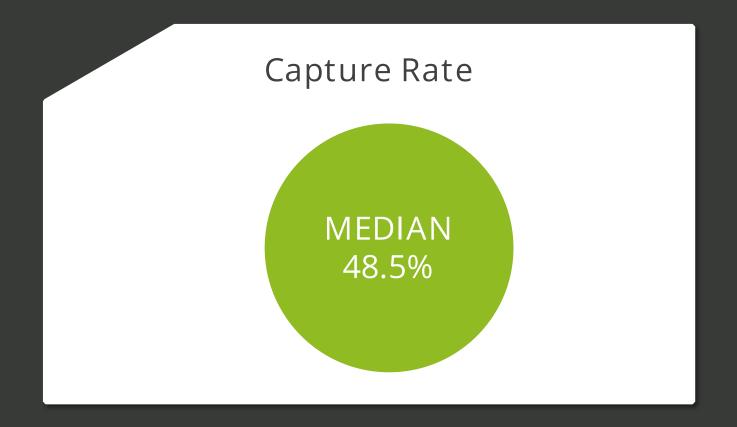
- Are we winning work?
- Are we growing revenue?





Business Development KPIs

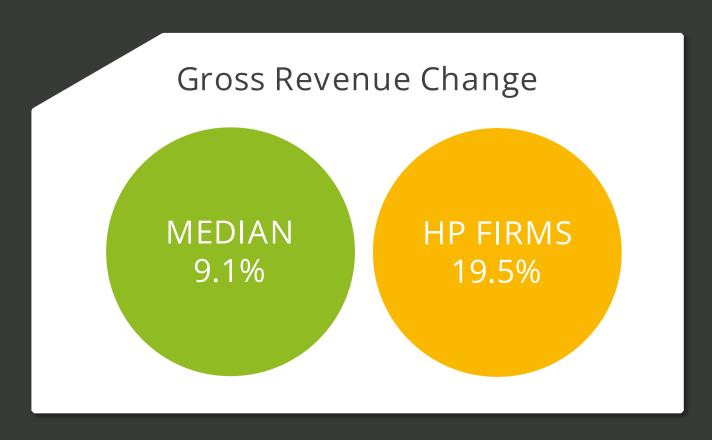
Proposals Awarded \$
Proposals Submitted \$



Business Development KPIs

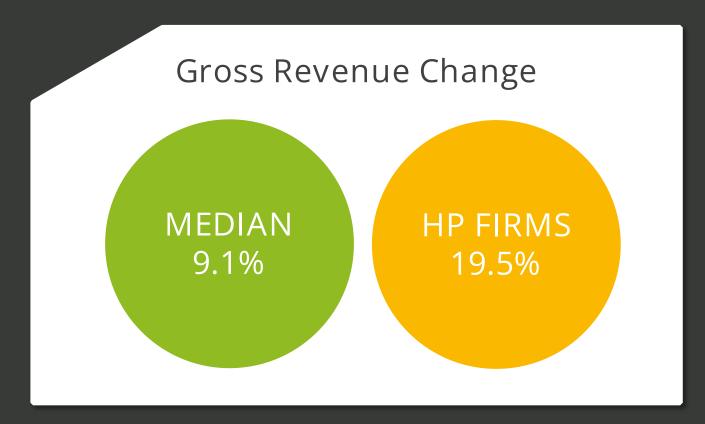
Proposals Awarded \$
Proposals Submitted \$

- Are fees competitive?
- Are project proposals standing out?



Business Development KPIs

% change between past two years



Business Development KPIs

% change between past two years

- Have a Business
   Development strategy?
- Creating an exceptional client experience?

# Setting Goals & Anticipating the Future

planning for the future

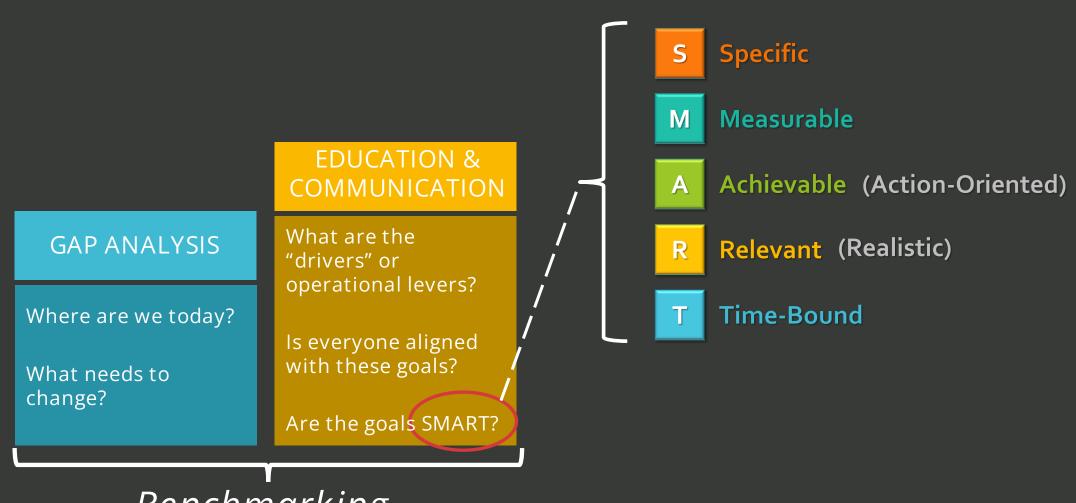
# Polling Question

Which of the following is NOT important for setting performance goals?

- Understanding the impact of changing demographics
- Considering how technology changes the delivery of services
- Knowing how to set clear expectations and objectives
- Getting as many KPI's as possible to measure firm performance
- Tracking changes in regulations that may impact your firm



# Planning for the Future



Benchmarking

# Planning for the Future



Anticipatory Thinking

**GAP ANALYSIS** 

Where are we today?

What needs to change?

EDUCATION & COMMUNICATION

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ANTICIPATE

Overall, what does the future look like?

What's happening in the marketplace?

What's happening within my firm?

Benchmarking

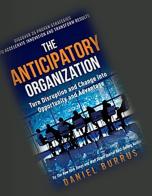
Performance Strategy

# **Anticipatory Thinking**

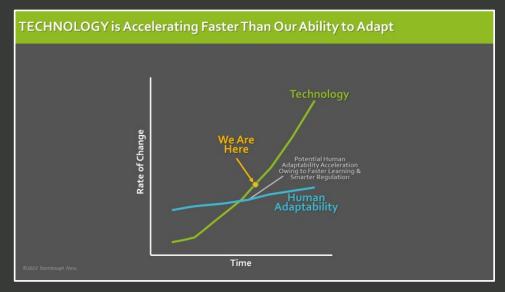
- ✓ Demographics
- ✓ Technology
- ✓ Regulatory

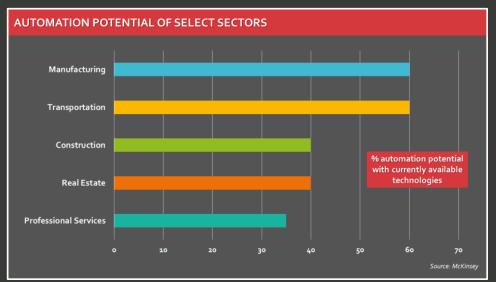


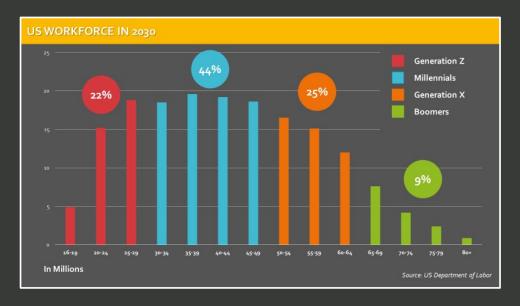
- ✓ Hard Assumptions
- ✓ Soft Assumptions



### **ANTICIPATORY LENS**









# Planning for the Future



Anticipatory Thinking

#### **GAP ANALYSIS**

Where are we today?

What needs to change?

# EDUCATION & COMMUNICATION

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# CREATE THE FUTURE

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Create your future!

Benchmarking

Performance Strategy

# Questions?



# Contact



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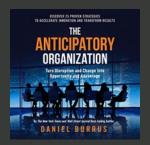
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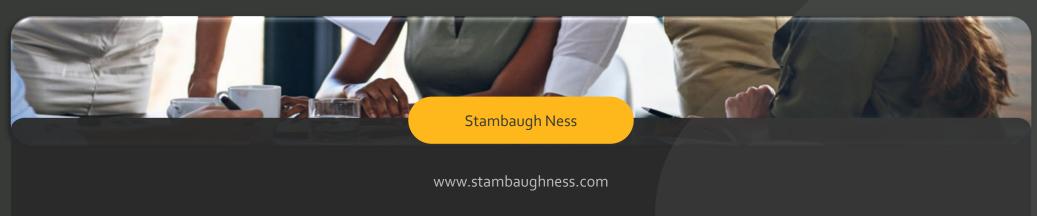


https://www.linkedin.com/in/jenniferknoxpe/

# Thank You!

If you would like us to send you a complimentary copy of The Anticipatory Organization, please let us know in the survey comments.







Kate Allen PE, MBA

Director AE Advisory Kate brings over 25 years of experience in the AE industry on both the design side and the business side. Kate specializes in transition strategies and business improvement initiatives, drawing from her unique educational background as well as her experiences as an engineer, educator, entrepreneur, industry consultant, and business leader, working collaboratively with firms to anticipate and prepare for their future.

### Professional Highlights

- BA in Psychology, BS in Mechanical Engineering, MBA
- MKK Consulting Engineers, Associate Owner
- Caveo Consulting Engineering, Co-Founder
- Deerns, Managing Director of Deerns USA
- BSA LifeStructures, National Engineering Director
- PSMJ Resources, Consultant
- Stambaugh Ness, Consultant



Jennifer Knox PE, MBA

AE Advisory Consultant Jennifer has over 10 years of experience in construction, engineering and project management. Having worked in Fortune 500 companies and a small minority owned business, Jennifer leverages her diverse background and MBA to help firms build collaborative cultures to drive success.

### Professional Highlights

- BS & MS in Civil Engineering, Executive MBA
- Professional Engineer, licensed in Pennsylvania
- The Hershey Company, Sr. Engineer & Project Manager
- Harnden Construction Services, Sr. Manger Strategy & Growth
- Stambaugh Ness, AE Advisory Consultant



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